

Appl. No. 10/541,088
Amdt Dated: 4/28/2006
Reply to Office Action of March 7, 2006

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An optical waveguide comprising:

a first waveguide having a common transmitting and receiving port at one side and a receiving port at the other side, extending linearly, and able to guide an optical signal in bi-direction, and

a second waveguide branching off from said first waveguide so as to make an acute angle with said receiving port, coupling said first waveguide at one side, having a transmitting port at the other side, and guiding an optical signal to said first waveguide, wherein said second waveguide is formed with a dimension such that said one side which is coupled to said first waveguide is smaller than the other side.

2. (Currently Amended) An optical waveguide as set forth in claim 1, wherein said first waveguide is formed with a dimension able to guide a plurality of ~~mode~~modes of the optical signal.

3. (Canceled)

4. (Currently Amended) An optical transmitting and receiving module coupled with an optical fiber, a light emitting element and a light receiving element via an optical waveguide comprising:

a first waveguide coupling said optical fiber at one side and a light receiving element at the other side and extending linearly, and a second waveguide branching off from said first waveguide so as to make an acute angle with said other side of said first waveguide and coupling said first waveguide at one side and a light emitting element at the other side, wherein said second waveguide is formed with a dimension such that said one side which is coupled to said first waveguide is smaller than the other side.

Appl. No. 10/541,088
Amdt Dated: 4/28/2006
Reply to Office Action of March 7, 2006

5. (Currently Amended) An optical transmitting and receiving module as set forth in claim 4, wherein said first waveguide is formed with a dimension able to guide a plurality of ~~mode~~modes of said optical signal.

6. (Canceled)

7. (New) An optical waveguide comprising:

a first waveguide having a common transmitting and receiving port at one side and a receiving port at the other side, extending linearly, and able to guide an optical signal in bi-direction, and

a second waveguide branching off from said first waveguide so as to make an acute angle with said receiving port, coupling said first waveguide at one side, having a transmitting port at the other side, and guiding an optical signal to said first waveguide, wherein said second waveguide is formed with a dimension such that said one side which is coupled to said first waveguide is smaller than the other side and the second waveguide is curved at a portion of adjacent the first waveguide.